

Campus Events Poster in the Works

The Office of Public Affairs plans to produce a campus events poster each month, starting in October.

The poster, now in the design stage, will give priority to events that, in OPA's opinion, appeal to large numbers of people. Examples are live theatre, concerts and sports contests.

Events judged to have limited appeal will be listed as space dictates.

Organizers/sponsors of on-campus events are invited to submit information to the Office of Public Affairs, 423 Athabasca Hall.

The deadline for receipt of information for the October poster is 20 September. The 20th of each month will serve as the deadline for subsequent posters.

The poster will appear on the various kiosks and bulletin boards at the beginning of each month. □

Science, Technology and Society Basis For Program, Lecture Series

Let's put Descartes before the horse . . .

A new program of Science, Technology and Society will make its debut next September.

It will be a four-year undergraduate degree program sponsored by the Departments of History, Philosophy, Sociology and Anthropology, explains Milton Freeman, Tory Professor of Anthropology.

Funding has been secured from the University's Special Initiatives Fund; the next step, the appointment of a director, may well take place this semester, Dr. Freeman says.

The program will stress the interface between science and society and so, while it's an Arts degree program, the requirement for a minor lies in science.

A practicum program will undoubtedly take place in the final year of study. Dr. Freeman envisions students being placed in, say, the Alberta Research Council, to find out how far-reaching scientific policy is made and implemented.

Science, technology and society is a growing field. There are a number of programs in the United States (MIT, Harvard, Yale) but they are rather scarce in Canada, Dr. Freeman says.

To set the tempo, Dr. Freeman and other advocates of the program

have scheduled a series of lectures on the theme "Science, Technology and Society."

Dr. Freeman will open the series on 15 September with a lecture titled "Exporting Our Morality in Terms of Global Conservation."

Here's how the rest of the series stacks up:

- David Bloor, philosopher, Science Studies Unit, University of Edinburgh, "Is Rule Following Essentially Social?" (6 October).

- Fraser Mustard, director, Canadian Institute for Advanced Research, Toronto, "Innovation and Canadian Prosperity: The Transforming Power of Science and Technology" (27 October).

- Glenn Griener, Department of Philosophy and associate director, Joint-Faculties Bioethics Project, U of A, "The New Reproductive Medicine and Social Control" (17 November).

- David Wilson, Department of Mechanical Engineering, U of A, "Risky Business: Assessing Potential Industrial Hazards" (24 November).

- William Leiss, Department of Communication, Simon Fraser University, "Risk Communication: At the Intersection of Science and Society" (1 December).

All lectures will be delivered in 1-09 Business Building, starting at 4 p.m. A question period will follow. □

FOLIO

University of Alberta

8 September 1988

AIDS Conference to Focus on Education

An "Action on Aids" Conference will be held in Edmonton, 28 September, sponsored by the Faculty of Extension and the University of Alberta Hospitals.

Designed for health professionals wanting to obtain the most up-to-date information about AIDS, the conference will include a two-hour live satellite broadcast, "The Aids Challenge", from

Sheridan College, Ontario, during which medical and educational experts will discuss AIDS research and information.

Throughout the conference, speakers will be addressing the concerns of the health care community regarding AIDS. Particular attention will be given to discussing how these concerns are being met in Alberta.

The morning portion of the conference will include "An Overview of AIDS" by John Waters, director, communicable disease control, Alberta Community and Occupational Health; and a discussion of "Blood and Body Fluid Precautions" by Rhoda Wiens, infection control nurse, U of A Hospitals.

Participants in the videoconference, due to air from 11 a.m. to 1 p.m., will include Alastair Clayton, director general, Federal Centre for AIDS in Ottawa, with an overview of the general considerations of AIDS and HIV infection as they apply to educational programs and combative measures. He will also discuss international collaborative initiatives.

A "Youth and AIDS" survey of young people's knowledge, attitudes and behaviors, will be presented by its authors, Alan J.C. King, Queen's University, and Richard Beazley, recipient of the National AIDS Research Scholar Award.

Reporting on the preliminary findings of the North American study, "Understanding Physicians' Response to AIDS" Phase I, Kathryn M. Taylor, director, physician behavior research unit, University of Toronto, will explore the ways in which AIDS is redefining the role of physicians, and how their attitudes will affect the cost and quality of patient care.

The final item of the videoconference will be a review of the latest information on early vaccine trials being conducted in association with microgenesis, presented by Stanley E. Reid, division of infectious diseases,

Hospital for Sick Children, Toronto.

The afternoon portion of the program starts with a "Reaction to the videoconference", given by Lil Miedzinski, Department of Infectious Diseases, Faculty of Medicine, at our University.

David Fitzgerald, coordinator of support services, AIDS Network of Edmonton, follows with an outline of "Community Linkage and Support Services".

Concluding the program will be a panel discussion moderated by Sharon Toohey, director of nursing, ambulatory care, U of A Hospitals. Panelists are Noela Inions, director of legal and quality assurance services, U of A Hospitals; Glenn Griener, associate director, Joint-Faculties Bioethics Project, U of A, and Lil Miedzinski.

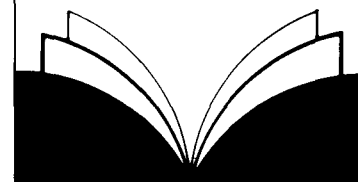
The conference—which has been approved for six hours of recommended study credits by the College of Family Physicians of Canada—will be introduced and wrapped-up by D. Schurman, president, U of A Hospitals.

Conference hours are 8 a.m. to 4.30 p.m., in Bernard Snell Hall, Walter C. Mackenzie Health Sciences Centre.

For more information, contact Christine van Roodselaar, Faculty of Extension, Corbett Hall, University of Alberta, Edmonton, T6G 2G4. Telephone: (403) 432-5070. □

Contents

- C-I-L Lecturer in 'metabolic engineering' vanguard
- Academic staff promotions
- Smoking policy decreed (see Letters)



C-I-L Distinguished Lecturer Pioneers 'Metabolic Engineering'

Brewing and winemaking are the oldest industries based on microorganisms; basically you combine yeast with sugars and ferment to obtain alcohol. Many factors influence the flavor of the resulting beverages, but the amount of alcohol is determined by the efficiency of the yeast in converting the sugars, and the tolerance of the yeast toward high alcohol levels.

In the past decade, the production of alcohol as a chemical feedstock or fuel has been a subject of intensive research. Rather than flavor, alcohol yield has become the primary concern. With the availability of recombinant DNA technology, the production of enzymes or proteins by microorganisms can be altered by changing the genetic coding within the cell. Many scientists are using this method to force cells to produce foreign proteins, such as human insulin. Can these methods be used to increase the efficiency of yeast for making alcohol, by modifying the enzymes normally

present? Can bacteria be altered to produce alcohol? How stable would these altered microorganisms be in an industrial environment? These are a few of the questions under investigation by James E. (Jay) Bailey, professor of chemical engineering, California Institute of Technology, and the 1988 C-I-L Distinguished Lecturer in Chemical Engineering.

Studies on modifying the basic operation of cells, which Bailey terms "metabolic engineering", use cloning procedures to insert DNA for desired enzymes into the cells. The performance of the modified cells during growth determines the success of the new DNA. Dr. Bailey's group can monitor crucial phosphate species formed during conversion of sugars, using a special NMR spectrometer to measure concentrations within the cells. Mathematical models of cell processes help to define the effectiveness of the cloned DNA and the efficiency of the new cell's metabolism. Techniques such as flow cytometry are used to

measure how well the cells retain their modified DNA as they grow and divide.

Dr. Bailey will give two lectures during his visit to campus. The first, entitled "Chemical Reaction Engineering at the Cellular Level" (15 September, 3:30 p.m.), will discuss how the analogy between the cell and the chemical reactor can be used to determine what genetic changes should be made in a cell to obtain a desired result. Current work from Dr. Bailey's

group on metabolic engineering of cells will illustrate the concepts. The second lecture, titled "Host-Plasmid Interactions in Genetically Engineered *Escherichia coli*" (16 September, 2:30 p.m.), will focus on the stability of plasmids introduced into cells by genetic engineering methods.

Both lectures will be held in 346 Chemical-Mineral Engineering Building. For additional information, call Murray Gray at 432-5805. □

Authority on Poland's Economic History to Visit

Jerzy Tomaszewski, a member of the Institute of Political Science, Warsaw University, will visit the Department of Slavic and East European Studies, 16 September to 1 October.

Dr. Tomaszewski is a well-known authority on Poland's economic history in the 20th century and a leading expert on the question of minorities in inter-war Poland.

Among his major publications are: *Poland in Europe and the World, 1918-1939*; *An outline of Poland's Economic History, 1918-1939*; *Republic of Many Peoples*; and *The Development of the Socialist Countries of East Central Europe to the Middle*

of the 1960's.

Professor Tomaszewski contributed to M. Kaser's and R. Noetel's work, *The Economic History of East Central Europe 1918-1971*, and is completing a study on the socialist state of Bulgaria under the title: *A Difficult Road to Socialism: Bulgaria 1944-1971*.

Professor Tomaszewski will deliver a number of lectures (see "Talks" section for details).

For further information concerning Professor Tomaszewski's visit, telephone the Department of Slavic and East European Studies, 432-3537, 432-3498. □

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University
of
Alberta

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Police Poised to Write Tickets

Don't make it a blue Monday, or
any other day of the week for that
matter.

The Edmonton City Police's
parking enforcement program as
regards the University of Alberta
starts on 12 September. All vehicles
parked illegally on residential
streets surrounding the University
of Alberta will be ticketed and

towed away.

At least two patrol cars have
been assigned to the area until
7 October when the complement of
officers will be reduced.

Least year, towing operators
experienced a bonanza, removing
as many as 150 vehicles on a
given day. □

Lend Them Your Years

"Edmonton AM", CBC 740 Radio's
morning show, will be
broadcasting live from the
University of Alberta on Thursday,
15 September, from 6 to 9 a.m.

The show will originate from the
Central Academic Building (main
floor, near the stairs to the
cafeteria). The focus will be on

education and research.

A CBC spokesman says, "We'll
have special guests, a public
forum with panel discussion, giveaways,
and, overall, a very exciting
program."

"Edmonton AM" hosts are Ruth
Anderson and John Grant. □

Academic Staff Promotions Effective 1 July 1988

Department	Name	New Rank	Department	Name	New Rank
Faculty of Agriculture and Forestry			Faculty of Medicine		
Forest Science	F.C. Yeh	Professor	Health Services		
Forest Science	V.J. Lieffers	Associate Professor	Administration	J.L. Storch	Professor
Plant Science	A. Horak	Associate Professor	Medicine	M. Haraphongse	Professor
Plant Science	R.N. Knowles	Associate Professor	Pathology	R.W. Amy	Professor
Soil Science	N.G. Juma	Associate Professor	Pathology	L.E. McGann	Professor
			Pediatrics	R.L. Collins-Nakai	Professor
Faculty of Arts			Pediatrics	W. Wenman	Professor
Art and Design	J. Frascara	Professor	Pharmacology	T.M. Allen	Professor
Drama	D. Lovett	Professor	Pharmacology	A.S. Clanachan	Professor
Economics	M.B. Percy	Professor	Pharmacology	T.T. Gordon	Professor
History	P.E. Prestwich	Professor	Physiology	C.I. Cheeseman	Professor
History	H.E. Wilson	Professor	Surgery	D.C. Reid	Professor
Linguistics	A.J. Rozsypal	Professor	Surgical Medical Research		
Psychology	L.P. Mos	Professor	Institute	R.V. Rajotte	Professor
Sociology	G.S. Lowe	Professor	Family Medicine	N. Bell	Associate Professor
Sociology	H.C. Northcott	Professor	Immunology	D.R. Green	Associate Professor
Economics	J.R. Livernois	Associate Professor	Medicine	G.D. MacLean	Associate Professor
History	J. Himka	Associate Professor	Medicine	D.W. Morrish	Associate Professor
History	D.C. Mills	Associate Professor	Medicine	P.M. Venner	Associate Professor
Linguistics	M.S. Dryer	Associate Professor			
Music	C.O. Lewis	Associate Professor			
Philosophy	R.R. Burch	Associate Professor			
Romance Languages	A. Soare	Associate Professor			
Slavic and East European					
Studies	O. Ilnytzkyj	Associate Professor			
Slavic and East European					
Studies	A. Tumanov	Associate Professor			
Sociology	G.D. Laxer	Associate Professor			
Faculty of Business					
Marketing and					
Economic Analysis	A. Finn	Associate Professor			
Organizational Analysis	A.I. Murray	Associate Professor			
Organizational Analysis	Y. Reshef	Associate Professor			
Faculty of Dentistry					
Dental Health Care	B.A. Zier	Professor			
Dental Health Care	J.F. Pimlott-Beaton	Associate Professor			
Faculty of Education					
Educational Foundations	A.M. Decore	Professor			
Elementary Education	G.J. Fishburne	Professor			
Secondary Education	L.S. Beauchamp	Professor			
Elementary Education	J.M. Edwards	Associate Professor			
Secondary Education	J.J. Jagodzinski	Associate Professor			
Faculty of Engineering					
Chemical Engineering	D.T. Lynch	Professor			
Civil Engineering	A.E. Elwi	Professor			
Electrical Engineering	R. Fedosejevs	Professor			
Electrical Engineering	W. Joerg	Professor			
Civil Engineering	D.H. Chan	Associate Professor			
Electrical Engineering	M.J. Brett	Associate Professor			
Faculty of Extension					
Fine Arts	A.R. Schmidt	Professor			
Faculty of Home Economics					
Foods and Nutrition	J. Johnston	Associate Professor			
Faculty of Law					
	G.B. Robertson	Professor			
Library					
	M. Boucher	Librarian II			
	B. Champion	Librarian II			
	R. Reichardt	Librarian II			



University of Alberta
Edmonton

Canada T6G 2E1

Letters

A Freedom in Ashes

■ Starting 1 September, the University of Alberta is banning smoking in private offices. It seems either thoughtless or cowardly to have suppressed debate by hiding this aspect of the new legislation until the half-dead summer recess but at this late stage I wish to make three points. First, alienating smokers hurts standards at the University; second, there is no reason to believe that the cause of the ban, a presumed damaging effect of "side stream" smoke leaking out of private offices, is a health hazard; and third, it is an example of the frightening way in which new crusaders are successfully destroying freedoms.

I once worked for six months in the Museum of Comparative Zoology at Harvard, an old wooden building where smoking was not allowed due to the risk of fire. Smokers stayed away from the university because they preferred to work in freedom at home. Amongst them was Al Romer, one of the most famous of all paleontologists. Better students, with a choice of universities, should choose to go to one where more freedom still exists. I would. Again on a personal level I would have refused a post here if I had been told that I was not allowed to smoke in my own office, and I suspect there are many like me. Advertisements for new staff should contain the warning, "THIS UNIVERSITY DOES NOT ALLOW SMOKING ANYWHERE EXCEPT IN DESIGNATED PUBLIC AREAS". My point here is that every standard, from research and teaching to students and support staff and even to administration (many smokers will not join smokeless committees), is jeopardized by driving smokers out of the University. And please spare me from the stupidly naive, "All we are telling them is to stop smoking here."

The above warning should also be included in letters inviting visiting lecturers and dignitaries, potential benefactors and so on. It would be an odious discrimination for senior administrators to allow visitors to smoke in their offices. "If you wish to smoke Sir Winston, please go to the cafeteria."

I hope the real point at issue is whether "side stream" smoke from smokers' offices is a threat to the health of those in other offices. If the legislation is merely the result of committees of non-smokers stamping their feet we should all feel ashamed. The existence of a threat requires proof that "side stream" smoke damages health; that the air in non-smokers' offices contains a hazardous amount of tobacco pollutants, and that these are directly attributable to "side stream" smoke leaking from private offices. All would be necessary before an intelligent and disinterested observer could find the new legislation reasonable.

Similar circumstances still surround the controversy over putting flouride in water supplies. In the case of both fluoride and "side stream" smoke, opponents continue to ignore the fact that research has been unable to show that small amounts damage health. But absence of damage can never be proved for the same reason that it is impossible to prove your husband is faithful. You can only prove he is unfaithful. Non-smokers should therefore prove that "side stream" smoke damages their health. The research attacking smoking, however, contains erroneous statistics, inadequate controls, poor epidemiology, badly constructed questionnaires, biased interpretations, unwarranted conclusions and even falsified results* (Eysenck, H.J. 1986; Aviado, D.M. 1986). With frightening success non-smoking crusaders have ignored the bulk of the data and fed selected material to a gullible public.

The real extent of the supposed threat can only be assessed from independent measurements of all the pollutants at present inside our offices and outside the buildings: formaldehyde and xylene vapors from laboratories, nitrosamines, carbon monoxide and so on; fumes from combustion engines, factory emissions, aerosols and gas burners. The list is huge. As for my own office in the Faculty of Dentistry, please include radioactive waste from the exhaust just outside my window, mercury vapor from amalgam filling materials, ethylene oxide from the central sterilizer and asbestos from the ceiling under which I have been working for 10 years. A minute, probably immeasurable, amount

of tobacco pollutants amongst all the others in non-smokers' offices would make the new legislation equivalent to removing a harmless but unsightly mole and ignoring an adjacent cancer.

Finally, I am frightened how this issue has again shown the power of the new crusaders. They are becoming the legislation of so-called democratic societies. They attack freedom in art, in the theatre and in literature. They crusade against the freedom to employ whom you wish, to have an abortion, to drive without seat-belts, to open stores on Sunday, to read un-expurgated classics in schools and even to allow my cats to roam outdoors. They are fanatics who in the selfish cause of trying to improve their own lives have not noticed that each success pushes us closer to the freedomless societies of *Brave New World*, 1984, *This Perfect Day*, *One*, and *Fahrenheit 451*.

Every year we become more forced to conform to the dictates of a well-intentioned but uninformed majority led by the half-truths and New Think of crusaders. And today they are foolishly celebrating over the ashes of another incinerated freedom. We should all be mourning. □

J. W. Osborn

Department of Oral Biology

*Eysenck, H.J. (1986) *Smoking and Health*. In *Smoking and Society*, ed. by Tollison, R.D. Heath and Co. Toronto. pp. 17-88.
Aviado, D.M. (1986) *Health issues related to "passive" smoking*. Ibid pp. 137-166.

All Persons Who Responded to the Self-Identification Survey in April

■ I wish to thank everyone who took the time to respond to the self-identification survey in April. We undertook the survey as part of the process of attempting to develop a profile of the workforce at the University of Alberta.

The development of the profile is almost complete and we will be reporting through the usual channels to the University community shortly. In the meantime, I would like you to know that we had close to a 50 percent response from a mail out of more than 7,000 questionnaires. We feel very satisfied since the project was purely voluntary. Other universities and corporations have had better response but have required identification and have made response virtually compulsory.

We will soon be in touch with those who identified themselves, with information on the data recovered.

Thank you again for your support of the process toward employment equity at the University of Alberta.

Doris Badir

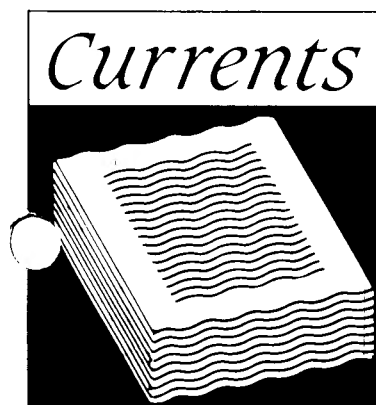
Special Assistant to the President

Selection Committee for Dean: Faculty of Pharmacy and Pharmaceutical Sciences

An Advisory Selection Committee has begun its search for a Dean of the Faculty of Pharmacy and Pharmaceutical Sciences. The appointment will take effect 1 July 1989 or as soon as possible thereafter. The present Dean has advised that he will not be a candidate. Suggestions of possible candidates and assessments of the leadership needs of the Faculty are invited.

Nominations or applications for the position, accompanied in the latter case by a detailed résumé of qualifications and experience, and the names of three referees, should be submitted by 1 December 1988 to:

Dr. J. Peter Meekison, Vice-President (Academic), 3-4 University Hall, University of Alberta, Edmonton, Alberta T6G 2J9.



Chair Selection Committees

The Faculty of Science announces that Chair Selection Committees have been established to select Chairs for the following departments: Chemistry, Geology, Microbiology and Zoology.

These committees are prepared to receive nominations and comments from members of the University community; these should be addressed to: Dr. W. John McDonald, Dean of Science, CW223 Biological Sciences Centre.

'Sweden: Equality and Efficiency'

An all-day conference titled "Sweden: Equality and Efficiency" will take place on campus on 6 October. Swedish delegates and their counterparts from business, industry, labor, government and academia in Canada will discuss the policies behind Sweden's success in staying competitive in world markets despite higher wage rates, stronger trade-unions, lower unemployment levels, more extensive social programs, and a larger public sector than most industrialized nations.

For further information, and registration material, contact Alberta International, University of Alberta, 222 Campus Tower, 8625 112 Street, Edmonton, Alberta T6G 0Y1. Telephone: 432-2958.

Faculty Badminton Club

Badminton will be played every Wednesday (7:30 to 10 p.m.) in the Education gymnasium (87th Avenue, west end of Education Centre), beginning 14 September. Faculty, research associates, postdoctoral fellows and spouses are welcome (beginners to experts included). The annual fee of \$15 per person includes cost of birds. For more information, telephone: H. Baadsgaard (432-2778), A.Z. Capri (432-5502), or N. Cyr (450-5417).

Talks

Alberta Heritage Foundation for Medical Research

8 September, 4 p.m. Michael L. Jennings, professor, Department of Physiology and Biophysics, University of Texas Medical Branch, Galveston, "Chemical Modification of the Red Cell Anion Exchanger." 2J402 Mackenzie Health Sciences Centre.

Canadian Institute of Ukrainian Studies and Department of Slavic and East European Studies

8 September, 4 p.m. Mykola Rudenko, writer and head of Ukrainian Helsinki

Group, "Contemporary Ukraine." Senate Chamber, Arts Building.

Canadian Mediterranean Institute

8 September, 7:30 p.m. Caterina Pizanas, "Penelope Then And Now." The Role of Women in the Hellenic Diaspora. Provincial Museum.

Alberta Cancer Foundation

9 September, noon. J. Michael Bishop, professor of Microbiology and Immunology, University of California, San Francisco, "The Molecular Genetics of Cancer: 1988." Auditorium, Cross Cancer Institute, 11560 University Avenue.

Institute for Financial Research

9 September, 3 p.m. Bob Korkie, "Multivariate Adjustments for Trading Frictions in Returns." 4-16 Business Building.

Sociology

14 September, noon. Bob Blackburn, head, sociological research, Department of Applied Economics, Cambridge, "Stratification Research: A Theoretical and Methodological Critique. Topic 1 - Off on the Wrong Track: The Development of Mobility Studies." 5-15 Tory Building.
15 September, 3:30 p.m. Dr. Blackburn, "Educational Selection and Social Stratification." 5-180 Education North.
21 September, noon. Dr. Blackburn, "Stratification Research: A Theoretical and Methodological Critique. Topic 2 - The Stratification Structure: Resolving the Contradictions of Theory and Measurement." 5-15 Tory Building.

Physics

14 September, 3:30 p.m. H. Rose, Los Alamos National Laboratory, "The Scaling Properties of Strong Langmuir Turbulence." 631 Physics Building.
21 September, 3:30 p.m. M. Sawicki, Warsaw University, "Lightfront Models of Relativistic Bound States in Nuclear Theory." 631 Physics Building.

English

15 September, 12:30 p.m. Reading by novelist and dramatist Robertson Davies. TL-11 Tory Lecture Theatre.
22 September, 3:30 p.m. Sam Rees, "Sublime Tobacco: Four Hundred Years of Poetry and Polemics." 5-20 Humanities Centre.
23 September, noon. Roland Smith, Dalhousie, "A People's War in Greenland: Graham Greene's Wartime Tales." 5-20 Humanities Centre.

Women's Studies Program

15 September, 3:30 p.m. Iris M. Young, Philosophy, Worcester Polytechnic Institute, "Abjection and Oppression: Reading Kristeva as a Theory of the Fear of Difference." 5-20 Humanities Centre.
16 September, 7:30 p.m. Iris M. Young, "The Idea of a Heterogeneous Public." 2-115 Education North.
17 September, 9 a.m. Lorraine Code, Philosophy, York University, "Remapping the Epistemic Terrain: Knowledge, Gender, Power." 2-135 Education North.
19 September, 4 p.m. Dr. Code, "The Autonomy of Reason." 5-20 Humanities Centre.

20 September, 3:30 p.m. Dr. Code, "Women and Experts: The Power of Ideology." 5-20 Humanities Centre.

Science, Technology and Society

15 September, 4 p.m. Milton Freeman, Tory Professor of Anthropology, "Exporting Our Morality in Terms of Global Conservation." 1-09 Business Building.

Entomology

15 September, 4 p.m. John Hildebrand, Arizona Research Laboratories, Tucson, Arizona, "Explorations of Insect Olfactory Pathways: Functional Organization, Physiology and Development." TBW-1 Tory Building.
22 September, 4 p.m. Janet Haley, "Host Selection and Gustatory Chemoreception in 3 *Leptinotarsa* Species." TBW-1 Tory Building.

Philosophy

16 September, 7:30 p.m. Iris M. Young, Worcester Polytechnic Institute, "The Idea of a Heterogeneous Public." 2-115 Education North.
17 September, 3:30 p.m. Catherine Keller, Drew University, "Endtimes, Deadlines, and the Time of Women." 2-115 Education North.

International Centre

19 September, noon. Tolo Mollel, Tanzanian student, "Stories from Africa."
20 September, 12:30 p.m. Laura Randall-Madsen, "Himalayan Trek."
21 September, noon. Lawrence Dombro will share his recent experiences as a participant in the Business Faculty's "China Project" in Xian, People's Republic of China.
22 September, 12:30 p.m. Kathy Ravensborg, Travel CUTS, "SWAP (Student Work Abroad Program)."

Slavic and East European Studies

19 September, 3 p.m. Jerzy Tomaszewski, Institute of Political Science, Warsaw University, "The Ethnic Structure of Inter-War Poland." Senate Chamber, Arts Building.
21 September, 11 a.m. Dr. Tomaszewski, "The 1918-1939 Polish State in Relation to its National Minorities." Room 5, Tory Building.
22 September, 3 p.m. Professor Tomaszewski, "Social Problems of Ukrainians in Poland, 1918-1939." Senate Chamber, Arts Building.

Computing Science

19 September, 3:30 p.m. Erich Kaltofen, Rensselaer Polytechnic Institute, Troy, New York, "Something to Do With Computer Algebra." 619 General Services Building.

The Arts

Exhibitions FAB Gallery

7 to 18 September. "Japanese Posters for the Nagoya World Design Exposition 1989" and "Experimental Typography, Innovative Teaching, Semiotic Theory by Hanno Ehse."

Ring House Gallery

Until 16 October. "Cryptogams: A Photographic and Botanical Exhibition of Lichens, Mosses and Liverworts of Northwest North America." Photography by Robin Bovey, support material by Dale Vitt and Janet Marsh.

SUB Theatre

9 September, 7:30 p.m. Tony Benn, "The Road Ahead: Strategies for Democratic Socialism." 439-0445.
10 September, 8 p.m. "Empire of the Sun."
11 September, 8 p.m. "Planes, Trains and Automobiles."
16 September, 8 p.m. Heather Bishop in concert. 435-4966.
17 and 19 September, 8 p.m. "Fatal Attraction."

Sports

Volleyball

8 September, 8 p.m. Duren Club of West Germany vs. Golden Bears. Main gym.

Soccer

9 September, 6:30 p.m. Pandas vs. Alumni.

Field Hockey

10 and 11 September. Panda Alberta Invitational.

Football

10 September, 1 p.m. Bears vs. Manitoba.
23 September, 7 p.m. Bears vs. Calgary.

Hockey

14 September, 7 p.m. Bears vs. Edmonton Oiler rookies.

Positions

The University of Alberta is an equal opportunity employer.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Faculté Saint-Jean, Education Permanente

L'Éducation permanente de la Faculté Saint-Jean sollicite des candidatures au poste de Responsable de la programmation des cours de français langue seconde et des sessions de printemps et d'été.

Qualifications requises: Diplôme universitaire, Expérience en éducation des adultes et en administration, Connaissance de l'enseignement du français langue seconde, Connaissance du français et de l'anglais parlés et écrits.

Entrée en fonction: Le 1er novembre 1988.

Traitement: Selon les qualifications et l'expérience (de 26,564\$ à 38,564\$). Initialement, un contrat d'un an sera offert avec possibilité de renouvellement.

Faire parvenir un curriculum vitae et les noms de trois répondants avant le 23 septembre au: Directeur, Education permanente, Pavillon André Daridon, 8406, rue Marie-Anne Gaboury (91e rue), Edmonton, Alberta T6C 4G9. Tél. (403) 468-1582.

Faculté Saint-Jean, Education Permanente

L'Education permanente de la Faculté Saint-Jean sollicite des candidatures au poste de Directeur/Directrice Adjoint(e).

Qualifications requises: Diplôme universitaire, Expérience en administration, Expérience en éducation des adultes et en formation à distance, Connaissance du milieu minoritaire, Connaissance du français et de l'anglais parlés et écrits.

Entrée en fonction: Le 1er décembre 1988.

Traitement: Selon les qualifications et l'expérience (de \$32,564 à \$46,700). Initialement, un contrat d'un an sera offert avec possibilité de renouvellement.

Faire parvenir un *curriculum vitae* et les noms de trois répondants avant le 30 septembre au: Directeur, Education permanente, Pavillon André Daridon, 8406, rue Marie-Anne Gaboury (91e rue), Edmonton, Alberta T6C 4G9. Tél. (403) 468-1582.

Acting Departmental Administrator (Full-Time Temporary Appointment), Department of Drama

An Acting Departmental Administrator is required immediately by the Department of Drama to replace its APO who has been seconded to other duties.

This is a full-time temporary academic appointment to 30 June 1989, with the possibility of renewal.

Reporting to the Chairman, the Acting Departmental Administrator is responsible for budgeting, personnel management, scheduling, timetabling, space and student registration, and acts as resource person on administrative matters.

Qualified applicants will have administrative experience in a university teaching department. Appreciation of theatre and familiarity with an IBM PC system considered assets.

Starting salary commensurate with experience, plus benefits.

Applications, including *curriculum vitae* and the names of three current references, should be addressed to David Barnet, Chairman, Department of Drama, 3-146 Fine Arts Building, University of Alberta, Edmonton, Alberta T6G 2C9.

Deadline for receipt of applications is 4 p.m., 21 September 1988.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 2 September. For a more up-to-date listing, please consult the weekly *Employment Opportunities Bulletin* and/or the postings in *PSSR*.

Senior Clerk, Pension and Benefits

Administration, (\$1,263-\$1,568)

Clerk Steno II, Agricultural Engineering, (\$1,263-\$1,568)

Clerk Typist II, Faculty of Graduate Studies and Research, (\$1,263-\$1,568)

Clerk Typist II, Romance Languages, (\$1,263-\$1,568)

Clerk Steno III (Part-time, Trust), Health Sciences Laboratory Animal Sciences, (\$704-\$884) (prorated)

Clerk Steno III (Trust/Term to 31 December 1988), Pharmacy, (\$1,407-\$1,767)

Clerk Steno III (Trust), Biochemistry, (\$1,407-\$1,767)

Clerk Steno III, Mining, Metallurgical and Petroleum Engineering, (\$1,407-\$1,767)

Clerk Steno III, Physical Education and Sport Studies, (\$1,407-\$1,767)

Clerk Steno III (Technical Typist), Faculty of Business, (\$1,407-\$1,767)

Clerk Steno III, Statistics and Applied Probability, (\$1,407-\$1,767)

Clerk Typist III, (Temporary, Part-time), Personnel Services and Staff Relations, (\$704-\$884) (prorated)

Clerk Typist III, (Part-time),

Microbiology, (\$844-\$1,060) (prorated)

Clerk Typist III, English, (\$1,407-\$1,767)

Library Clerk III, Faculté Saint-Jean, (\$1,407-\$1,767)

Administrative Clerk, Physical Plant, (\$1,568-\$2,003)

Medical Steno (Split-funded), Medicine (Nephrology and Immunology), (\$1,568-\$2,003)

Medical Steno, Medicine (Cardiology-Research), (\$1,568-\$2,003)

Secretary (Trust), Centre for Frontier Engineering Research, (\$1,568-\$2,003)

Secretary, Electrical Engineering, (\$1,568-\$2,003)

Office Services Senior Clerk, Faculty of Agriculture and Forestry, (\$1,767-\$2,274)

Senior Accounts Clerk, Office of the Comptroller, (\$1,767-\$2,274)

Laboratory Assistant I (Trust), Zoology, (\$1,176-\$1,454)

Laboratory Assistant III (Part-time, Trust), Pathology (Medical Laboratory Science), (\$884-\$1,110) (prorated)

Biology Technologist I/II (Part-time, Trust), Genetics, (\$1,002-\$1,412) (prorated)

Biochemistry Technologist I (Trust), McEachern Laboratory, (\$2,003-\$2,585)

Administrative Assistant I, Faculty of Extension, (\$2,003-\$2,585)

Nurse (Trust), Medicine, (\$2,088-\$2,703)

Technologist II (Trust), Animal Science, (\$2,178-\$2,823)

Programmer Analyst II (Term), University Computing Systems, (\$2,373-\$3,082)

Controls Fitter, Physical Plant, (\$3,136)

Library Clerk I (Part-time), H.T. Coutts Library, (\$588-\$727) (prorated)

Library Clerk II, H.T. Coutts Library, (\$1,263-\$1,568)

Library Clerk II, Cameron Library, (\$1,263-\$1,568)

Library Clerk II, Cameron Library, (\$1,263-\$1,568)

Library Clerk III, H.T. Coutts Library, (\$1,407-\$1,767)

Library Clerk III, Cameron Library, (\$1,407-\$1,767)

Library Assistant I, Cameron Library, (\$1,454-\$1,845)

Library Assistant I, Cameron Library, (\$1,454-\$1,845)

Secretary, Cameron Library, (\$1,568-\$2,003)

Library Assistant III, Cameron Library, (\$1,845-\$2,373)

Programmer Analyst III, Cameron Library, (\$2,823-\$3,686)

Advertisements

Accommodations available

Victoria properties - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call collect (604) 592-3666, Lois Dutton, Wessex Realty, Victoria, B.C.

Sale - Lakefront. Wabamun north shore. Fully furnished cottage with terrific view. Immediate possession. Great location. Lot 100'x200'. For details, call Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - \$19,500. Hubbles Lake. 4.38 acres, mobile home. Perfect retreat. Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - Two-storey home, four bedrooms. Lot 67'x150'. Good location. Close to University. Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - Four, large, city lots. Financing available. Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - Old Riverbend. Beautiful bungalow, quiet, treed street. 2 1/2 baths, fireplace in sunken living room. Bright, well-planned kitchen. Double, detached garage. Only \$125,800. Ann Dawrant, Spencer Realty, 436-5250, 430-6971.

Sale - West end, two storeys, three bedrooms, Under \$80,000. Resi Richter, Royal LePage Realty, 483-9432.

Sale - Valleyview. Bungalow, near ravine. Three bedrooms, jacuzzi, fully developed. \$187,500. Resi Richter, Royal LePage Realty, 483-9432.

Sale - Grandview bungalow. Excellent condition. Open beam. Lovely open design. Lots of built-ins. For viewing, call Sherry Mailo, Canada Trust Realty, 468-2100.

Sale - Bungalow, prestigious location, west end. Three bedrooms, family room, developed basement, fireplace, double garage. Resi Richter, Royal LePage Realty, 483-9432.

Rent - Near University. Four bedrooms, two full baths, appliances included, garage. Non-smokers, no pets, will rent to family or students. Contact Melony, 431-1174 after 6:30 p.m. Available 1 October.

Rent - Furnished home in Toronto. Beaches area, three bedrooms, study, piano. Excellent schools, close to TTC and beach. Available January-July 1989 (negotiable). \$1,200, utilities. (416) 698-6742 res., 978-6623 office.

Sale - Secluded log home on 3.5-treed acres. Perfect getaway, mountain view, four bedrooms, winterized, cathedral ceilings, fireplace. Owner, 987-4820. Agent, 845-5100.

Rent - One-bedroom, furnished apartment. 9908 114 St. Pool, sauna. 1 October-30 April. Mature individual. Damage deposit. \$700/month. 488-7316 evenings, weekends.

Sale - Garneau. Three-bedroom, character bungalow with den. Single, attached plus double, detached garages. Hardwood floors throughout, including kitchen. Walking distance to hospital and campus. NRS Realty, Luke Flanagan, 438-6111.

Sale - Old Strathcona, excellent University location, near river valley, good schools, tennis. Charming, renovated, two storeys, spacious, bright, high ceilings, hardwood, remodelled kitchen, south backyard. Jean MacKenzie, Spencer Realty, 436-5250.

Sale/rent - Sunny, spacious, two-bedroom suite, well-kept, high-rise condominium. Spectacular city view. Pool, sauna, five-minute ride to University. 1 December or later. \$79,000 or \$700 rent. 482-4286.

Sublet - Old Strathcona on Saskatchewan. Furnished, 3-4 bedrooms, garage. Prefer grad./mature students. 1 October to June/July. \$700 plus utilities. Call 433-5784.

Rent - Near University. Clean, two-bedroom house. October. Finished basement with extra bedroom. Double garage, one block to bus. Married couple preferred, non-smokers, no pets. \$600. 434-4882.

Sale - Belgravia beauty. Three-bedroom bungalow with Berber carpeting. Large, entertainment-sized living room. Nicely upgraded bathroom. Large, treelined, private lot. 62'x130'. Contact Ronn Bence, Royal LePage Realty. 438-5100.

Accommodations wanted

Post-doctoral fellow, non-smoker,

married, looking for furnished one- or two-bedroom suite, near University. Contact Israel, 438-9113 after 6 p.m. Assistant professor commuting from Calgary requires small suite, walking distance from campus. References. Walter, 432-7237, 439-6114.

Automobiles and others

1978 Ford Granada, \$1,200. 483-9342.

Goods for sale

"Ice, Stars and Saucers", available at the Edmonton Bookstore; only minutes from campus at 8530 109 St. Quality books bought and sold. 433-1781.

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26" GE console TV, ten years old, \$100.

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Jazzercise, the original dance fitness program, offers eight classes, \$14. Valid 7 September-31 October. New students only, UAH, Nurses Residence. Monday/Wednesday, 5-6 p.m. For information, call Dina, 478-8997.

Piano, theory, harmony lessons. Beginners-adults. Western Board. Robert Garipey, 433-7238.

Professional typist with BA, word processing, specializing in theses, dissertations. Lois, 464-2351.

International folk dancing: instruction and practice 8-10:30 p.m., Friday evenings, starting 16 September, University campus, Physical Education, room 14. No partner required, fee \$25/year. Phone Jean, 435-7811.


Mill Creek Preschool Educational Society. Children 2-5 years, full- or part-time. Program includes: music, ballet, physical coordination, painting, drawing, preschool readiness skills, French. Qualified teachers. 439-8047, 465-7285.

Belgravia Co-op. Playschool has openings for three and four year olds, weekday mornings. Queries may be made to Chris at 435-6421.

Experienced piano teacher looking for students. 438-4362.

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Lawn service requires conscientious, caring, able student. September-October. \$6.50/hour. 2-3 hours per day. Possible managerial position spring 1989. 438-5347.



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ELIGIBILITY: Any amateur photographer may enter, but no professionals. A scientist does not need to be funded by AHFMR. Photos need not be taken during the current year but they must be taken by the entrant and previously unpublished. Submit no more than 3 entries. 8x10 inch unmounted prints in black & white or color.

DEADLINE: SEPT 21, 1988

ENTRY FORMS AVAILABLE AT: Office of Research Services, Fac. of Med., Gen. Office, Fac. of Science and AHFMR, 3125 Manulife Place, 10180 - 101 Street, Edmonton, AB, T5J 3S4, (403) 423-5727.

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Room W1-55 Van Vliet Centre

CONTACT: The Fitness Unit at 432 - 4435

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